

SEQUENCE LISTING

<110> Braselmann, Sylvia

<120> Nucleotide Sequences that Encode
Phosphatidylinositol-3' Kinase Associated Proteins and
Uses Thereof

<130> 1027-DIV1

<140> Unknown

<141> 2000-10-13

<150> 08/942,008

<151> 1997-10-01

<150> 60/030,103

<151> 1996-11-01

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

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tgggcctggc gcggggggcg ggcaccgggg cccggtcgga c atg ggc aag aag cac 176
Met Gly Lys Lys His
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aag aag cac aag tcg gac aaa cac ctc tac gag gag tat gta gag aag 224
Lys Lys His Lys Ser Asp Lys His Leu Tyr Glu Glu Tyr Val Glu Lys
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ccc ttg aag ctg gtc ctc aaa gta gga ggg aac gaa gtc acc gaa ctc 272
Pro Leu Lys Leu Val Leu Lys Val Gly Gly Asn Glu Val Thr Glu Leu
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gat cat gac aaa cac aag gac aga aag cgg aaa aag aga aag aaa gga	368
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55 60 65	
gag aag cag att cca ggg gaa gaa aag ggg aga aaa cgg aga aga gtt	416
Glu Lys Gln Ile Pro Gly Glu Glu Lys Gly Arg Lys Arg Arg Arg Val	
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aag gag gat aaa aag aag cga gat cga gac cgg gtg gag aat gag gca	464
Lys Glu Asp Lys Lys Lys Arg Asp Arg Asp Arg Val Glu Asn Glu Ala	
90 95 100	
gaa aaa gat ctc cag tgt cac gcc cct gtg aga tta gac ttg cct cct	512
Glu Lys Asp Leu Gln Cys His Ala Pro Val Arg Leu Asp Leu Pro Pro	
105 110 115	
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Glu Lys Pro Leu Thr Ser Ser Leu Ala Lys Gln Glu Glu Val Glu Gln	
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aca ccc ctt caa gaa gct ttg aat caa ctg atg aga caa ttg cag aga	608
Thr Pro Leu Gln Glu Ala Leu Asn Gln Leu Met Arg Gln Leu Gln Arg	
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Lys Asp Pro Ser Ala Phe Phe Ser Phe Pro Val Thr Asp Phe Ile Ala	
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Pro Gly Tyr Ser Met Ile Ile Lys His Pro Met Asp Phe Ser Thr Met	
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aaa gaa aag atc aag aac aat gac tat cag tcc ata gaa gaa cta aag	752
Lys Glu Lys Ile Lys Asn Asn Asp Tyr Gln Ser Ile Glu Glu Leu Lys	
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gat aac ttc aaa cta atg tgt act aat gcc atg att tac aat aaa cca	800
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 Gly Gly His Ser Arg Thr Leu Gln Glu Met Glu Met Ser Leu Pro Glu
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 Arg Leu Ile Ala Leu Lys Ala Val Thr Asn Phe Gly Val Pro Val Glu
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 Phe Glu Asp Lys Asn Asp His Asp Lys His Lys Asp Arg Lys Arg Lys
 50 55 60
 Lys Arg Lys Lys Gly Glu Lys Gln Ile Pro Gly Glu Glu Lys Gly Arg
 65 70 75 80
 Lys Arg Arg Arg Val Lys Glu Asp Lys Lys Lys Arg Asp Arg Asp Arg
 85 90 95
 Val Glu Asn Glu Ala Glu Lys Asp Leu Gln Cys His Ala Pro Val Arg
 100 105 110
 Leu Asp Leu Pro Pro Glu Lys Pro Leu Thr Ser Ser Leu Ala Lys Gln
 115 120 125
 Glu Glu Val Glu Gln Thr Pro Leu Gln Glu Ala Leu Asn Gln Leu Met
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 Arg Gln Leu Gln Arg Lys Asp Pro Ser Ala Phe Phe Ser Phe Pro Val
 145 150 155 160
 Thr Asp Phe Ile Ala Pro Gly Tyr Ser Met Ile Ile Lys His Pro Met
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Asp Phe Ser Thr Met Lys Glu Lys Ile Lys Asn Asn Asp Tyr Gln Ser
 180 185 190
 Ile Glu Glu Leu Lys Asp Asn Phe Lys Leu Met Cys Thr Asn Ala Met
 195 200 205
 Ile Tyr Asn Lys Pro Glu Thr Ile Tyr Tyr Lys Ala Ala Lys Lys Leu
 210 215 220
 Leu His Ser Gly Met Lys Ile Leu Ser Gln Glu Arg Ile Gln Ser Leu
 225 230 235 240
 Lys Gln Ser Ile Asp Phe Met Ala Asp Leu Gln Lys Thr Arg Lys Gln
 245 250 255
 Lys Asp Gly Thr Asp Thr Ser Gln Ser Gly Glu Asp Gly Gly Cys Trp
 260 265 270
 Gln Arg Glu Arg Glu Asp Ser Gly Asp Ala Glu Ala His Ala Phe Lys
 275 280 285
 Ser Pro Ser Lys Glu Asn Lys Lys Lys Asp Lys Asp Met Leu Glu Asp
 290 295 300
 Lys Phe Lys Ser Asn Asn Leu Glu Arg Glu Gln Glu Gln Leu Asp Arg
 305 310 315 320
 Ile Val Lys Glu Ser Gly Gly Lys Leu Thr Arg Arg Leu Val Asn Ser
 325 330 335
 Gln Cys Glu Phe Glu Arg Arg Lys Pro Asp Gly Thr Thr Thr Leu Gly
 340 345 350
 Leu Leu His Pro Val Asp Pro Ile Val Gly Glu Pro Gly Tyr Cys Leu
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 Val Arg Leu Gly Met Thr Thr Gly Arg Leu Gln Ser Gly Val Asn Thr
 370 375 380
 Leu Gln Gly Phe Lys Glu Asp Lys Arg Asn Lys Val Thr Pro Val Leu
 385 390 395 400
 Tyr Leu Asn Tyr Gly Pro Tyr Ser Ser Tyr Ala Pro His Tyr Asp Ser
 405 410 415
 Thr Phe Ala Asn Ile Ser Lys Asp Asp Ser Asp Leu Ile Tyr Ser Thr
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Tyr Gly Glu Asp Ser Asp Leu Pro Ser Asp Phe Ser Ile His Glu Phe
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 Leu Ala Thr Cys Gln Asp Tyr Pro Tyr Val Met Ala Asp Ser Leu Leu
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 Asp Val Leu Thr Lys Gly Gly His Ser Arg Thr Leu Gln Glu Met Glu
 465 470 475 480
 Met Ser Leu Pro Glu Asp Glu Gly His Thr Arg Thr Leu Asp Thr Gly
 485 490 495
 Lys Glu Met Glu Gln Ile Thr Glu Val Glu Pro Pro Gly Arg Leu Asp
 500 505 510
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 515 520 525
 Gly Val Pro Val Glu Val Phe Asp Ser Glu Glu Ala Glu Ile Phe Gln
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 Lys Lys Leu Asp Glu Thr Thr Arg Leu Leu Arg Glu Leu Gln Glu Ala
 545 550 555 560
 Gln Asn Glu Arg Leu Ser Thr Arg Pro Pro Gly Asn Met Ile Cys Leu
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 Leu Gly Pro Ser Ser Glu Lys Cys Ile Leu Leu Asn Lys
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